TRANSPORTATION MANAGEMENT PLAN UPDATE #2

To: TODD LARK Date: January 28, 2019

Project Engineer File: HUM-101 PM 84.4/84.8 North Region Design E3 EA: 01-0E0001 EFIS: 0113000091

As signed by: Upgrade Bridge Rails & Replace Bridge

From: SHERI RODRIGUEZ, Chief

District 1 Office of Traffic Operations

Project Information

Location: In Humboldt County, near Arcata, at the Jacoby Creek

Bridge (#04-0023L; #04-0023R) and the Gannon Slough

Bridge (#04-0024R).

Type of Work: 1. Replace the SB Jacoby Creek Bridge (#04-0023L). The

new bridge will be constructed on a temporary alignment and moved to the existing alignment once the existing bridge

is removed.

2. Replace bridge rails at the NB Jacoby Creek Bridge (#04-0023R) and the NB Gannon Slough Bridge (#04-0024R). Additional work includes replacing the bridge deck surfaces with reinforced concrete to support the new bridge rails.

Anticipated Traffic Control: Lane reduction traffic control on Route 101 at night

Lane reduction traffic control on NB Route 101 during the

day (4 weekend occurrences max)

Short-term closure of SB Route 101 at night with detour onto Route 255 (2 occurrences; 6-hr and 10-hr closure)

SB Route 101 onramp closures Moving lane closure for striping

Estimated Maximum Delay: NB/SB Route 101 Typical: Minimal

NB Route 101 Weekend Lane Reduction: 10 min.

SB Route 101 Detour to Route 255: 10 min.

Route 255: Minimal

Peak Hour Traffic Volumes: NB Route 101: 2,300 vph

SB Route 101: 1,800 vph Route 255: 1,700 vph

Lane Requirement Charts Included: Yes

Closure During Night Hours: Required

Number of Working Days: 260 days; 2 seasons required at the SB Jacoby Creek Bridge

(#04-0023L)

PS&E to DOE Date: February 1, 2019

RTL Date: April 1, 2019

District Traffic Mgr/ TMP Mgr: Sheri Rodriguez (707) 445-6377

TMP Contact: Jamie Lusk (707) 445-6419

Anticipated Traffic Impacts

Significant traffic impacts are not anticipated provided the following recommendations and requirements are incorporated into the project. In conformance with Deputy Directive-60, District Lane Closure Review Committee (DLCRC) approval is not required for projects with anticipated traffic delay less than 30 min. However, due to anticipated inconveniences to the public, the DLCRC was consulted and their approval was provided.

Hours of Work

- See Chart nos. 1 through 5 for work hour restrictions.
- At least two adjacent through lanes in each direction of travel must be open for use by public traffic for the following Special Days:

Event	Event Date	Special Days
Humboldt State University Graduation	Second Weekend in May	Friday through Sunday
Kinetic Grand Championship Race	Last Weekend in May	Friday through Monday
Humboldt Bay Marathon	Second Sunday in August	Sunday

The contractor must verify the actual dates for these Special Events. See Chart no. 6 "Lane Closure Restrictions for Designated Holidays and Special Days" for work day restrictions.

Public Notice

- Upon receipt of notice that the total roadway width, including paved shoulder, will be narrowed to less than 16 ft or there is a change in vertical clearance, the Resident Engineer must promptly notify the HQ District 1 Construction Liaison at (916) 322-4822 so annual permit holders can be notified of restrictions.
- The District Public Information Office, (707) 445-6444, must be contacted two weeks in advance of the start of construction.
- Each closure must be entered in the Lane Closure System (LCS; http://lcs.dot.ca.gov/lcsprod/).
 - To access the LCS you will need an account. Contact Jeannette Candalot at (707) 445-7807 to get set up with an account.
 - Every Monday by noon, submit a schedule of planned closures for the next week period. The next week period is defined as Friday midnight through the following Friday midnight.

• Closures must be statused daily. Status closures before the first advance warning sign is placed (1097) and after the last advance warning sign is picked up (1098) or if cancelled (1022). Statusing can be accomplished through:

Status With	Day	Time	URL/Contact Number
LCS Web Page	Any	Any	https://lcs.dot.ca.gov
LCS Mobile Web Page	Any	Any	https://lcsmobile.dot.ca.gov
District 1 Dispatch	Monday-Friday	6:30am-6:30pm	(707) 441-5747
District 3 Dispatch	Monday-Friday	6:30pm-6:30am	(916) 859-7900
District 3 Dispatch	Saturday and Sunday	Any	(916) 859-7900

- Any emergency service agency whose ability to respond to incidents will be affected by any lane closure must be notified prior to that closure.
- Work must be coordinated with the local busing system to minimize impact on their bus schedules. A minimum of two weeks in advance of SB Route 101 being closed, contact the Humboldt Transit Authority at (707) 443-0826 regarding the Redwood Transit Authority (RTS) SB Route 101 bus route. Hours of service are approximately 6:30am-9:30pm.
- The Resident Engineer must provide information to residents and businesses before and during project work that may represent a negative impact on commerce and travel surrounding the zone of construction.

Bicyclist Accommodation

- This section of Route 101 is part of the Pacific Coast Bike Route. Bicyclists must be accommodated through the work zone. Signage must be used to alert vehicles of the possible presence of bicyclists.
 - During lane reduction traffic control, bicyclists must:
 - a) Be provided adequate space adjacent to the open traffic lane to safely traverse through the work zone (e.g. 4 ft of delineated space) or
 - b) Be safely transported through the work zone in a vehicle equipped for passengers with storage for the bicycle. Staging areas for the loading/unloading of bicycles and their equipment must be outside of the clear zone or protected with a physical barrier. The bicycle transport must ensure no damage occurs to the bicyclists' equipment. Signage must be used to direct bicycle traffic to the required staging area.

Traffic Control

- One lane closure is allowed in each direction of travel within the project limits. Additionally, SB Route 101 will be closed for portions of 2 nights (detouring traffic onto Route 255) when the new Jacoby Creek Bridge (#04-0023L) is moved from its temporary to final alignment.
- The W11-1 vehicular traffic sign (bicycle symbol) and the W16-1 supplemental plaque (SHARE THE ROAD) must be placed prior to the construction zone.
- Work that requires a lane and/or shoulder closure on a freeway or expressway
 must be in conformance with the <u>Caltrans Standard Plan T10</u>, "TRAFFIC
 CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND
 EXPRESSWAYS."
 - Regarding the weekend lane reduction closures (4 occurrences) to reinforce bridge decks at the NB Jacoby Creek Bridge (#04-0023R) and the NB Gannon Slough Bridge (#04-0024R), the designer must provide a traffic handling plan.
- Work that requires a complete closure on a freeway or expressway must be in conformance with the <u>Caltrans Standard Plan T10A</u>, "TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS."
 - Regarding the complete SB Route 101 closures (2 occurrences) to move the new SB Jacoby Creek Bridge (#04-0023L) to its final alignment, the designer must provide a traffic handling plan or detour plan detailing the SB Route 255 detour.
- Work that requires a ramp closure must be in conformance with the <u>Caltrans Standard Plan T14</u>, "TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE."
 - Advance warning signs advising the hours of closure must be required 7 days prior to the ramp closure.
 - The SB Route 101 onramps from G Street, NB Route 255 and SB Route 255 will need to be closed when SB Route 101 is closed. These ramp closures must be incorporated into the traffic handling plan or detour plan describing the SB Route 255 detour.
- Work that requires a moving lane closure on a multilane facility must be in conformance with the <u>Caltrans Standard Plan T15</u>, "TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURES ON MULTILANE HIGHWAYS."
- A minimum of one PCMS in advance of the construction site must be required to notify the public of the closures related to this project.

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- Start displaying the message on the PCMS 15 minutes before closing the lane.
- The minimum height of the PCMS must be 7 ft.
- Access to businesses, side roads and residences must be maintained at all times.
 When work or traffic queues extend through an intersection, additional traffic control will be required at the intersection.
- COZEEP is required for this project based on risk factors associated with this
 project and the COZEEP Guidelines (CA DOT Construction Manual Section 2215C). The associated risk factors include: workers exposed to traffic, night
 construction activities, end of queue management, speed management and
 significant truck volumes.
- An advisory speed limit sign (black on orange) and 2 radar feedback signs (located in the median and the shoulder) must be displayed/installed prior to when SB Route 101 traffic will be placed on a temporary alignment.
- The following table lists projects that are anticipated to have closures within this project's work limits and must be added to section 5-1.20A of the 2015 Standard Specifications:

Contract No.	Co-Rte-PM	Location	Type of Work	Est. Delay
01-0C9304	HUM-101-80.8/85.0	Near Arcata	Improve Drainage	TBD
01-0C9704	HUM-101-79.9/86.3	In/Near Arcata	Upgrade Guardrail	Minimal
01-0F2204	HUM-101-80.2/85.8	In/Near Arcata	Upgrade Accel/Decel Lanes	Minimal
01-366004	HUM-101-80.6/84.0	Near Arcata	Upgrade 4-Lane Facility	Minimal

TMP Elements Needed for Cost Estimate

Item Code	Item	Unit	Minimum Unit Price
066062	COZEEP Contract	LS	\$2,800/night*
066070	Maintain Traffic	LS	\$400/working day
120100	Traffic Control System	LS	\$1,600/working day
128652	Portable Changeable Message Sign	LS	\$15,000
066063	Traffic Management Plan – Public Information	LS	\$5,000

*Consult Construction for number of nights

Delay Damages

Consider deducting delay damages for each 10-minute interval (\$1,000/10-minutes) or fraction thereof past the time specified to open the following closures:

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- SB Route 101 complete closure for the Jacoby Creek Bridge (#04-0023L) trial slide (6-hr)
- SB Route 101 complete closure for the Jacoby Creek Bridge (#04-0023L) final slide (10-hr)
- NB 101 weekend lane reduction closures (4 total weekends) to reinforce bridge decks at the Jacoby Creek Bridge (#04-0023R) and the Gannon Slough Bridge (#04-0024R).

Contingency Plan

The contractor must prepare a contingency plan for reopening closures to public traffic. The Contractor must submit the contingency plan for a given operation to the Engineer within one working day of the Engineer's request. Contingencies for unanticipated delays, emergencies, etc. must be coordinated between the RE and the Contractor.

SMR/jnl

CC: 1)SMRodriguez, 2)JCandalot

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Traffic Safety

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